

FIGURE 1

Figure 1: pMS Phage Display Vector. Pro = Lac Z promoter. L1 = Omp A leader. L2 = Pel B leader. Light = light chain. Heavy = heavy chain.

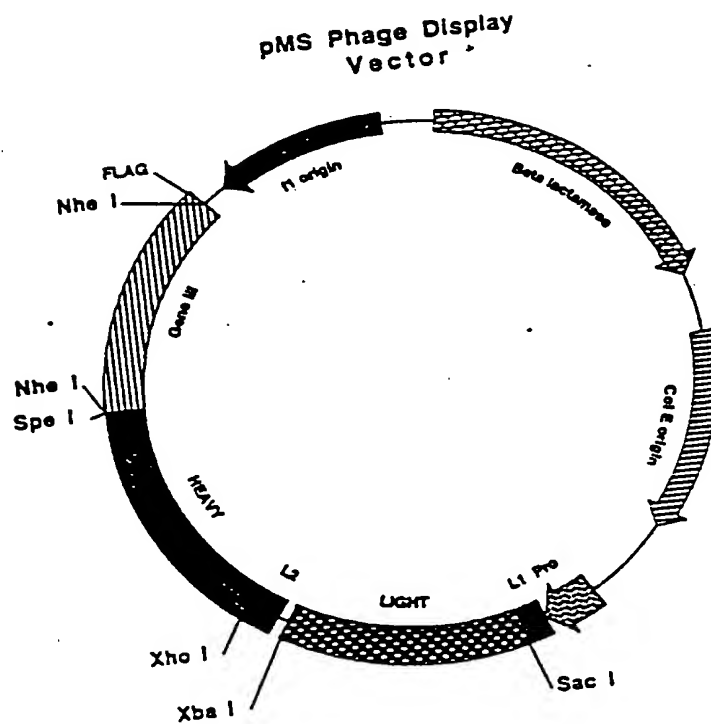
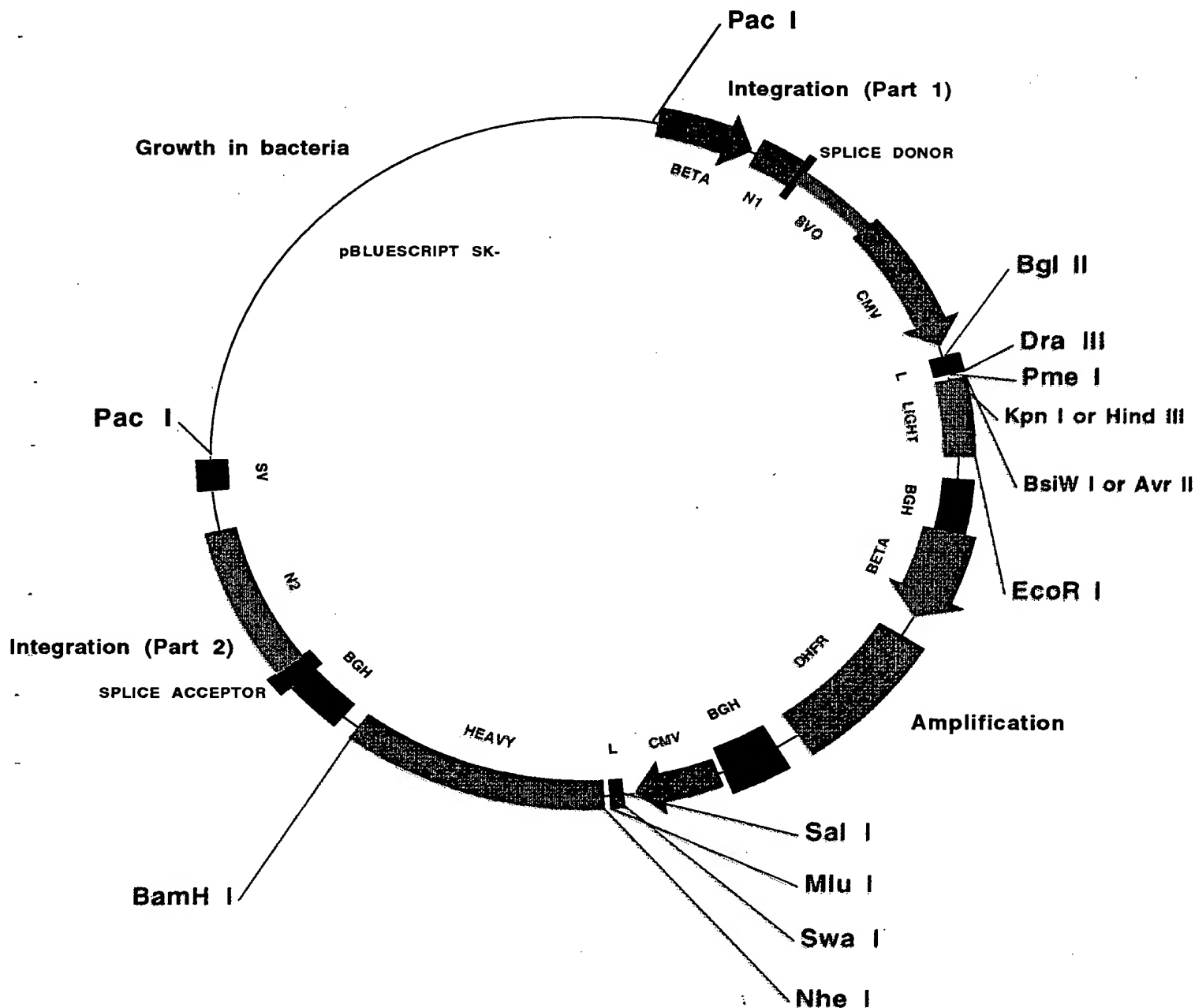


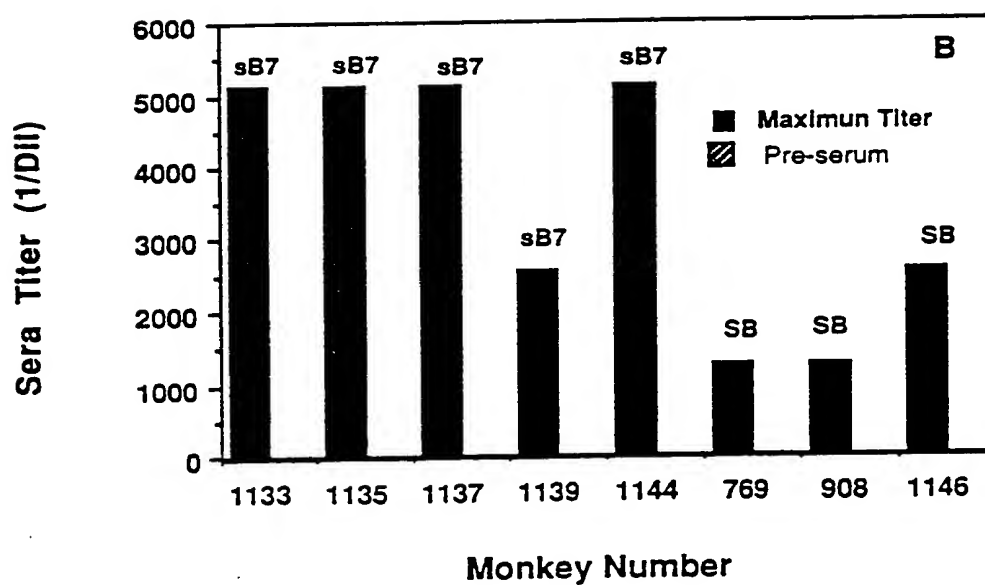
FIGURE 2

## NEOSPLA



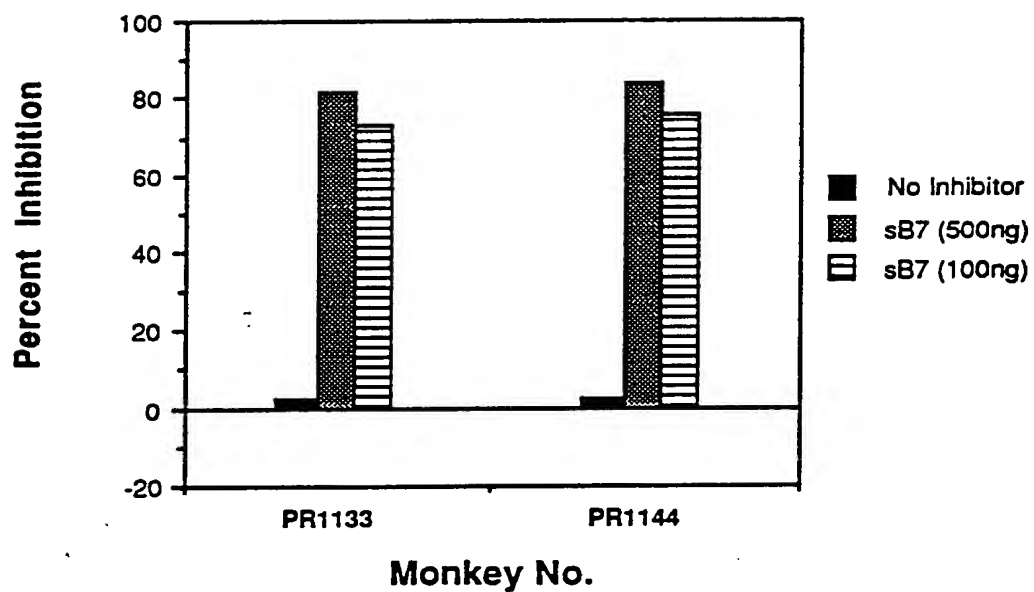
- CMV = Cytomegalovirus promoter/enhancer  
 BETA = Mouse Beta globin major promoter  
 SVO = SV40 origin  
 BGH = Bovine growth hormone polyadenylation  
 SV = SV40 polyadenylation  
 N1 = Neomycin phosphotransferase exon 1  
 N2 = Neomycin phosphotransferase exon 2  
 LIGHT = Human immunoglobulin kappa or lambda constant region  
 DHFR = Dihydrofolate Reductase  
 HEAVY = Human immunoglobulin gamma 1 or gamma 4 PE constant region  
 L = Leader

FIGURE 3



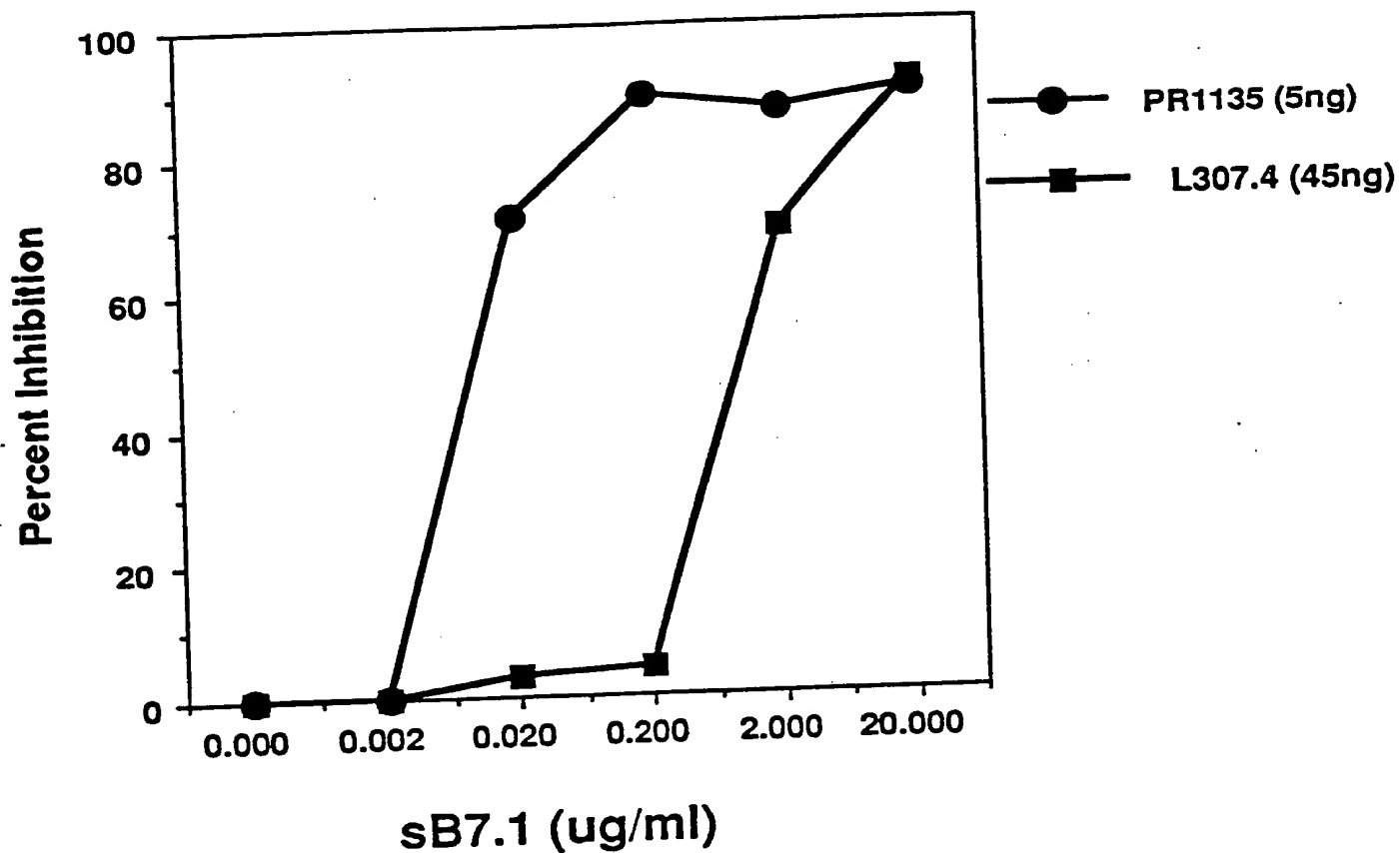
Monkey Serum Anti-B7.1 Titers Directed Against Cell Surface B7.1 on Transfected CHO Cells. Monkeys 1133-1139 were immunized with sB7.1. Monkeys 769-1146 were immunized with 50 million human B7 positive SB cells.

FIGURE 4



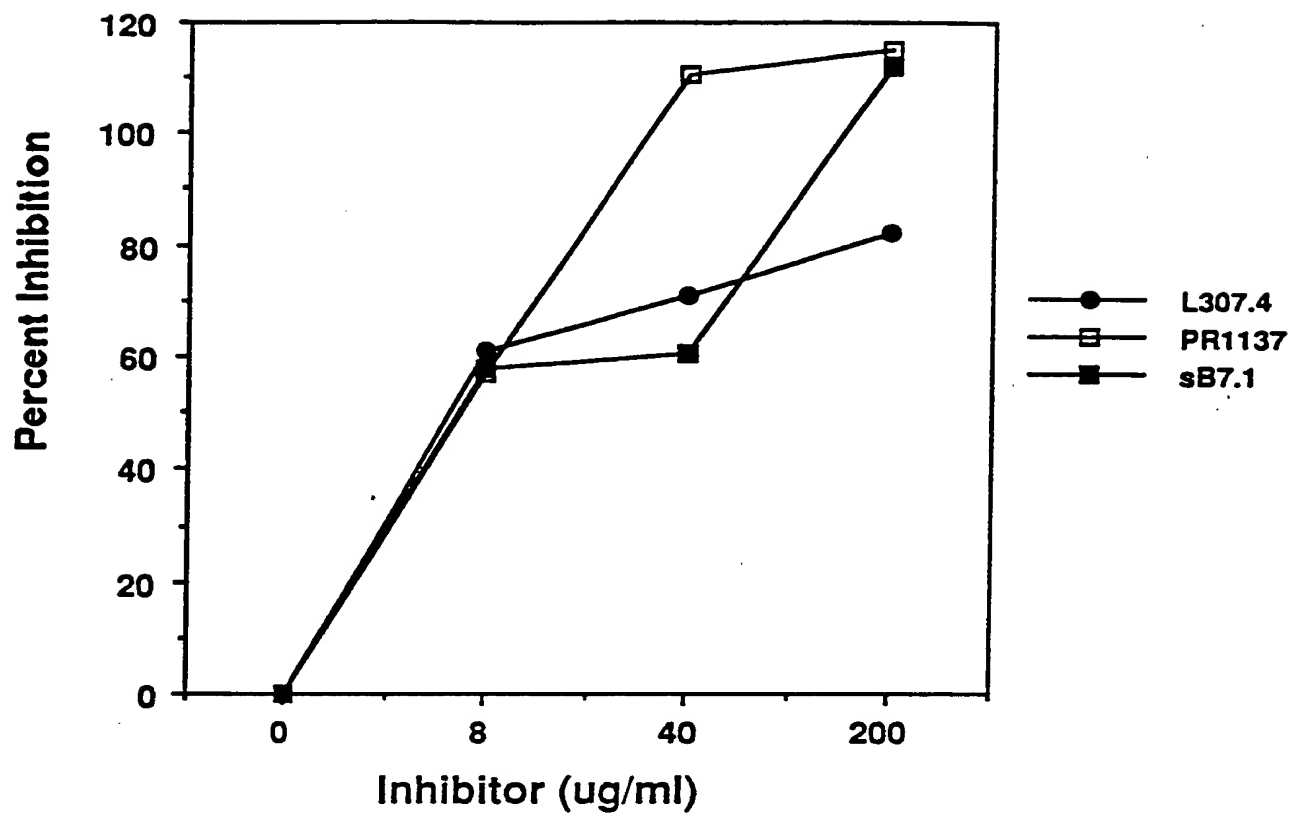
**Inhibition of Radiolabeled sB7.1 Binding by sB7.1 Affinity-purified  
Monkey Antibodies in Presence of Unlabeled sB7 and MAb L307.4  
Murine Anti-B7.1**

FIGURE 5



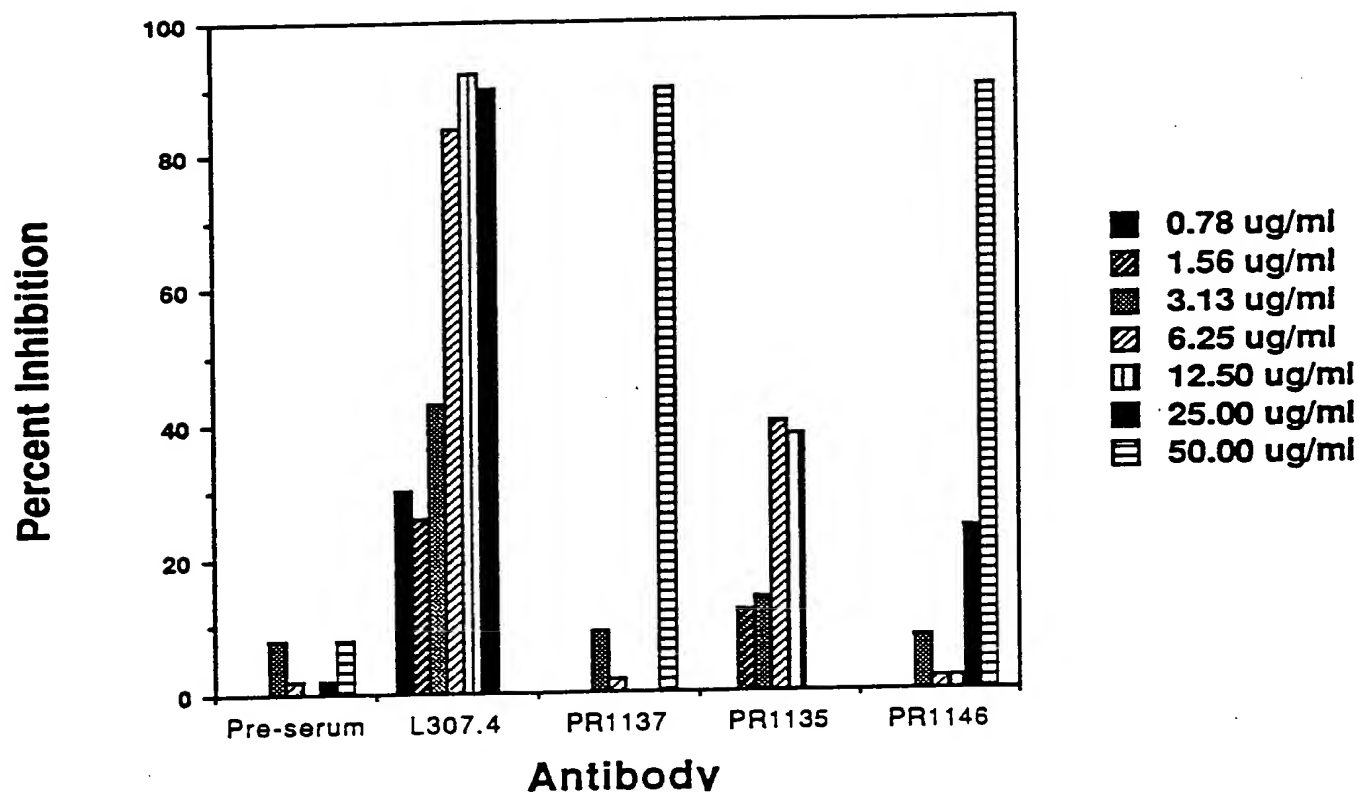
Inhibition of Binding of Radiolabeled Monkey 1135 and L307.4 Anti-B7.1 Antibodies to B7 Positive Human SB Cells by Competition With Affinity-Purified sB7.1.

FIGURE 6



Inhibition of Radiolabeled B7-Ig Binding to Activated Human Peripheral Blood T Cells by Competing With Unlabeled sB7.1 Murine Anti-B7.1 (L307.4) and Monkey 1127 Affinity-purified Serum Antibodies.

FIGURE 7



Inhibition of IL-2 Production in Mixed Lymphocyte Cultures by Anti-B7.1 Affinity-purified Monkey Serum Antibodies. Assays at some concentrations for certain monkeys were not done, due to limiting amounts of purified antibody.

Length of 7C10 light/Primatized: 705 bp; Listed from: 1 to: 705;  
Translated from: 1 to: 703 (Entire region);  
Genetic Code used: Universal; Fri, May 26, 1995 11:11 AM

Frame	1	M	R	V	P	A	Q	L	L	G	L	L	L	L	W	L	P	G	A	R
	ATG	AGG	GTC	CCC	GCT	CAG	CTC	CTG	GGG	CTC	CTG	CTG	CTC	TGG	CTC	CCA	GGT	GCA	CGA	
			9			18			27			36			45			54		
C	A	Y	E	L	T	Q	P	P	S	V	S	V	S	P	G	Q	T	A	R	I
TGT	GCC	TAT	GAA	CTG	ACT	CAG	CCA	CCC	TCG	GTG	TCA	GTG	TCC	CCA	GGA	CAG	ACG	GCC	AGG	ATC
	63			72			81			90			99			108			117	
T	C	G	G	D	N	S	R	N	E	Y	V	H	W	Y	Q	Q	K	P	A	R
ACC	TGT	GGG	GGA	GAC	AAC	AGT	AGA	AAT	GAA	TAT	GTC	CAC	TGG	TAC	CAG	CAG	AAG	CCA	GCG	CGG
	126			135			144			153			162			171			180	
A	P	I	L	V	I	Y	D	D	S	D	R	P	S	G	I	P	E	R	F	S
GCC	CCT	ATA	CTG	GTC	ATC	TAT	GAT	GAT	AGT	GAC	CGG	CCC	TCA	GGG	ATC	CCT	GAG	CGA	TTC	TCT
	189			198			207			216			225			234			243	
G	S	K	S	G	N	T	A	T	L	T	I	N	G	V	E	A	G	D	E	A
GGC	TCC	AAA	TCA	GGG	AAC	ACC	GCC	ACC	CTG	ACC	ATC	AAC	GGG	GTC	GAG	GCC	GGG	GAT	GAG	GCT
	252			261			270			279			288			297			306	
D	Y	Y	C	Q	V	W	D	R	A	S	D	H	P	V	F	G	G	G	T	R
GAC	TAT	TAC	TGT	CAG	GTG	TGG	GAC	AGG	GCT	AGT	GAT	CAT	CCG	GTC	TTC	GGA	GGA	GGG	ACC	CGG
	315			324			333			342			351			360			369	
V	T	V	L	G	Q	P	K	A	A	P	S	V	T	L	F	P	P	S	S	E
GTG	ACC	GTC	CTA	GGT	CAG	CCC	AAG	GCT	GCC	CCC	TCG	GTC	ACT	CTG	TTC	CCG	CCC	TCC	TCT	GAG
	378			387			396			405			414			423			432	
E	L	Q	A	N	K	A	T	L	V	C	L	I	S	D	F	Y	P	G	A	V
GAG	CTT	CAA	GCC	AAC	AAG	GCC	ACA	CTG	GTG	TGT	CTC	ATA	AGT	GAC	TTC	TAC	CCG	GGA	GCC	GTG
	441			450			459			468			477			486			495	
T	V	A	W	K	A	D	S	S	P	V	K	A	G	V	E	T	T	T	P	S
ACA	GTG	GCC	TGG	AAG	GCA	GAT	AGC	AGC	CCC	GTC	AAG	GCG	GGA	GTG	GAG	ACC	ACC	ACA	CCC	TCC
	504			513			522			531			540			549			558	
K	Q	S	N	N	K	Y	A	A	S	S	Y	L	S	L	T	P	E	Q	W	K
AAA	CAA	AGC	AAC	AAC	AAG	TAC	GCG	GCC	AGC	AGC	TAC	CTG	AGC	CTG	ACG	CCT	GAG	CAG	TGG	AAG
	567			576			585			594			603			612			621	
S	H	R	S	Y	S	C	Q	V	T	H	E	G	S	T	V	E	K	T	V	A
TCC	CAC	AGA	AGC	TAC	AGC	TGC	CAG	GTC	ACG	CAT	GAA	GGG	AGC	ACC	GTG	GAG	AAG	ACA	GTG	GCC
	630			639			648			657			666			675			684	
P	T	E	C	S	.															



FIGURE 8b

Length of 7C10 heavy/Primatized: 1431 bp; Listed from: 1 to: 1431;  
Translated from: 1 to: 1429 (Entire region);  
Genetic Code used: Universal; Fri, May 26, 1995 11:11 AM

Frame 1	M	K	H	L	W	F	F	L	L	L	V	A	A	P	R	W	V	L	S	
	ATG	AAA	CAC	CTG	TGG	TTC	TTC	CTC	CTC	CTG	GTG	GCA	GCT	CCC	AGA	TGG	GTC	CTG	TCC	
			9			18			27			36			45			54		
Q	V	K	L	Q	Q	W	G	E	G	L	L	Q	P	S	E	T	L	S	R	T
CAG	GTG	AAG	CTG	CAG	CAG	TGG	GGC	GAA	GGA	CTT	CTG	CAG	CCT	TCG	GAG	ACC	CTG	TCC	CGC	ACC
	63			72			81			90			99			108			117	
C	V	V	S	G	G	S	I	S	G	Y	Y	Y	W	T	W	I	R	Q	T	P
TGC	GTT	GTC	TCT	GGT	GGC	TCC	ATC	AGC	GGT	TAC	TAC	TAC	TGG	ACC	TGG	ATC	CGC	CAG	ACC	CCA
	126			135			144			153			162			171			180	
G	R	G	L	E	W	I	G	H	I	Y	G	N	G	A	T	T	N	Y	N	P
GGG	AGG	GGA	CTG	GAG	TGG	ATT	GGC	CAT	ATT	TAT	GGT	AAT	GGT	GCG	ACC	ACC	AAC	TAC	AAT	CCC
	189			198			207			216			225			234			243	
S	L	K	S	R	V	T	I	S	K	D	T	S	K	N	Q	F	F	L	N	L
TCC	CTC	AAG	AGT	CGA	GTC	ACC	ATT	TCA	AAA	GAC	ACG	TCC	AAG	AAC	CAG	TTC	TTC	CTG	AAC	TTG
	252			261			270			279			288			297			306	
N	S	V	T	D	A	D	T	A	V	Y	Y	C	A	R	G	P	R	P	D	C
AAT	TCT	GTG	ACC	GAC	GCG	GAC	ACG	GCC	GTC	TAT	TAC	TGT	GCG	AGA	GGC	CCT	CGC	CCT	GAT	TGC
	315			324			333			342			351			360			369	
T	T	I	C	Y	G	G	W	V	D	V	W	G	P	G	D	L	V	T	V	S
ACA	ACC	ATT	TGT	TAT	GGC	GGC	TGG	GTC	GAT	GTC	TGG	GGC	CCG	GGA	GAC	CTG	GTC	ACC	GTC	TCC
	378			387			396			405			414			423			432	
S	A	S	T	K	G	P	S	V	F	P	L	A	P	S	S	K	S	T	S	G
TCA	GCT	AGC	ACC	AAG	GGC	CCA	TCG	GTC	TTC	CCC	CTG	GCA	CCC	TCC	TCC	AAG	AGC	ACC	TCT	GGG
	441			450			459			468			477			486			495	
G	T	A	A	L	G	C	L	V	K	D	Y	F	P	E	P	V	T	V	S	W
GGC	ACA	GCG	GCC	CTG	GGC	TGC	CTG	GTC	AAG	GAC	TAC	TTC	CCC	GAA	CCG	GTG	ACG	GTG	TCG	TGG
	504			513			522			531			540			549			558	
N	S	G	A	L	T	S	G	V	H	T	F	P	A	V	L	Q	S	S	G	L
AAC	TCA	GGC	GCC	CTG	ACC	AGC	GGC	GTG	CAC	ACC	TTC	CCG	GCT	GTC	CTA	CAG	TCC	TCA	GGA	CTC
	567			576			585			594			603			612			621	
Y	S	L	S	S	V	V	T	V	P	S	S	S	L	G	T	Q	T	Y	I	C
TAC	TCC	CTC	AGC	AGC	GTG	GTG	ACC	GTG	CCC	TCC	AGC	AGC	TTG	GGC	ACC	CAG	ACC	TAC	ATC	TGC
	630			639			648			657			666			675			684	
N	V	N	H	K	P	S	N	T	K	V	D	K	K	A	E	P	K	S	C	D
AAC	GTG	AAT	CAC	AAG	CCC	AGC	AAC	ACC	AAG	GTG	GAC	AAG	AAA	GCA	GAG	CCC	AAA	TCT	TGT	GAC
	693			702			711			720			729			738			747	
K	T	H	T	C	P	P	C	P	A	P	E	L	L	G	G	P	S	V	F	L
AAA	ACT	CAC	ACA	TGC	CCA	CCG	TGC	CCA	GCA	CCT	GAA	CTC	CTG	GGG	GGA	CCG	TCA	GTC	TTC	CTC
	756			765			774			783			792			801			810	
F	P	P	K	P	K	D	T	L	M	I	S	R	T	P	E	V	T	C	V	V
TTC	CCC	CCA	AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC	GTG	GTG
	819			828			837			846			855			864			873	
V	D	V	S	H	E	D	P	E	V	K	F	N	W	Y	V	D	G	V	E	V
GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	GTC	AAG	TTC	AAC	TGG	TAC	GTG	GAC	GGC	GTG	GAG	GTG
	882			891			900			909			918			927			936	

FIGURE 8b (Continued)

H	N	A	K	T	K	P	R	E	E	Q	Y	N	S	T	Y	R	V	V	S	V
CAT	AAT	GCC	AAG	ACA	AAG	CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC	AGC	GTC
	945			954			963			972			981			990			999	
L	T	V	L	H	Q	D	W	L	N	G	K	E	Y	K	C	K	V	S	N	K
CTC	ACC	GTC	CTG	CAC	CAG	GAC	TGG	CTG	AAT	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC	AAC	AAA
	1008			1017			1026			1035			1044			1053			1062	
A	L	P	A	P	I	E	K	T	I	S	K	A	K	G	Q	P	R	E	P	Q
GCC	CTC	CCA	GCC	CCC	ATC	GAG	AAA	ACC	ATC	TCC	AAA	GCC	AAA	GGG	CAG	CCC	CGA	GAA	CCA	CAG
	1071			1080			1089			1098			1107			1116			1125	
V	Y	T	L	P	P	S	R	D	E	L	T	K	N	Q	V	S	L	T	C	L
GTG	TAC	ACC	CTG	CCC	CCA	TCC	CGG	GAT	GAG	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC	TGC	CTG
	1134			1143			1152			1161			1170			1179			1188	
V	K	G	F	Y	P	S	D	I	A	V	E	W	E	S	N	G	Q	P	E	N
GTC	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	AAT	GGG	CAG	CCG	GAG	AAC
	1197			1206			1215			1224			1233			1242			1251	
N	Y	K	T	T	P	P	V	L	D	S	D	G	S	F	F	L	Y	S	K	L
AAC	TAC	AAG	ACC	ACG	CCT	CCC	GTG	CTG	GAC	TCC	GAC	GGC	TCC	TTC	TTC	CTC	TAC	AGC	AAG	CTC
	1260			1269			1278			1287			1296			1305			1314	
T	V	D	K	S	R	W	Q	Q	G	N	V	F	S	C	S	V	M	H	E	A
ACC	GTG	GAC	AAG	AGC	AGG	TGG	CAG	CAG	GGG	AAC	GTC	TTC	TCA	TGC	TCC	GTG	ATG	CAT	GAG	GCT
	1323			1332			1341			1350			1359			1368			1377	
L	H	N	H	Y	T	Q	K	S	L	S	L	S	P	G	K	.				
CTG	CAC	AAC	CAC	TAC	ACG	CAG	AAG	AGC	CTC	TCC	CTG	TCT	CCG	GGT	AAA	TGA				
	1386			1395			1404			1413			1422			1431				

Length of 7B6 light/Primatized: 720 bp; Listed from: 1 to: 720;  
Translated from: 1 to: 718 (Entire region);  
Genetic Code used: Universal; Fri, May 26, 1995 11:10 AM

Frame 1	M	S	L	P	A	Q	L	L	G	L	L	L	C	V	P	G	S	S		
	ATG	AGC	CTC	CCT	GCT	CAG	CTC	CTC	GGG	CTG	CTA	TTG	CTC	TGC	GTC	CCC	GGG	TCC	AGT	
			9			18			27			36			45			54		
G	E	V	V	M	T	Q	S	P	L	S	L	P	I	T	P	G	E	P	A	S
GGG	GAA	GTT	GTG	ATG	ACT	CAG	TCT	CCA	CTG	TCC	CTT	CCC	ATC	ACA	CCT	GGA	GAG	CCG	GCC	TCC
	63			72			81			90			99			108			117	
I	S	C	R	S	S	Q	S	L	K	H	S	N	G	D	T	F	L	S	W	Y
ATC	TCC	TGT	AGG	TCT	AGT	CAA	AGC	CTT	AAA	CAC	AGT	AAT	GGA	GAC	ACC	TTC	CTG	AGT	TGG	TAT
	126			135			144			153			162			171			180	
Q	Q	K	P	G	Q	P	P	R	L	L	I	Y	K	V	S	N	R	D	S	G
CAG	CAG	AAG	CCA	GGC	CAA	CCT	CCA	AGG	CTC	CTG	ATT	TAT	AAG	GTT	TCT	AAC	CGG	GAC	TCT	GGG
	189			198			207			216			225			234			243	
V	P	D	R	F	S	G	S	G	A	G	T	D	F	T	L	K	I	S	A	V
GTC	CCA	GAC	AGA	TTC	AGC	GGC	AGT	GGG	GCA	GGG	ACA	GAT	TTC	ACA	CTG	AAA	ATC	AGC	GCA	GTG
	252			261			270			279			288			297			306	
E	A	E	D	V	G	V	Y	F	C	G	Q	G	T	R	T	P	P	T	F	G
GAG	GCT	GAA	GAT	GTT	GGG	GTT	TAT	TTC	TGC	GGG	CAA	GGT	ACA	AGG	ACT	CCT	CCC	ACT	TTC	GGC
	315			324			333			342			351			360			369	
G	G	T	K	V	E	I	K	R	T	V	A	A	P	S	V	F	I	F	P	P
GGA	GGG	ACC	AAG	GTG	GAA	ATC	AAA	CGT	ACG	GTG	GCT	GCA	CCA	TCT	GTC	TTC	ATC	TTC	CCG	CCA
	378			387			396			405			414			423			432	
S	D	E	Q	L	K	S	G	T	A	S	V	V	C	L	L	N	N	F	Y	P
TCT	GAT	GAG	CAG	TTG	AAA	TCT	GGA	ACT	GCC	TCT	GTT	GTG	TGC	CTG	CTG	AAT	AAC	TTC	TAT	CCC
	441			450			459			468			477			486			495	
R	E	A	K	V	Q	W	K	V	D	N	A	L	Q	S	G	N	S	Q	E	S
AGA	GAG	GCC	AAA	GTA	CAG	TGG	AAG	GTG	GAT	AAC	GCC	CTC	CAA	TCG	GGT	AAC	TCC	CAG	GAG	AGT
	504			513			522			531			540			549			558	
V	T	E	Q	D	S	K	D	S	T	Y	S	L	S	S	T	L	T	L	S	K
GTC	ACA	GAG	CAG	GAC	AGC	AAG	GAC	AGC	ACC	TAC	AGC	CTC	AGC	AGC	ACC	CTG	ACG	CTG	AGC	AAA
	567			576			585			594			603			612			621	
A	D	Y	E	K	H	K	V	Y	A	C	E	V	T	H	Q	G	L	S	S	P
GCA	GAC	TAC	GAG	AAA	CAC	AAA	GTC	TAC	GCC	TGC	GAA	GTC	ACC	CAT	CAG	GGC	CTG	AGC	TCG	CCC
	630			639			648			657			666			675			684	
V	T	K	S	F	N	R	G	E	C	.										
GTC	ACA	AAG	AGC																	

FIGURE 9b

Length of 7B6 heavy/Primatized: 1437 bp; Listed from: 1 to: 1437;  
 Translated from: 1 to: 1435 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:09 AM

Frame 1	M	G	W	S	L	I	L	L	F	L	V	A	V	A	T	R	V	Q	C	
	ATG	GGT	TGG	AGC	CTC	ATC	TTG	CTC	TTC	CTT	GTC	GCT	GTT	GCT	ACG	CGT	GTC	CAG	TGT	
			9			18			27			36			45			54		
E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	V	S
GAG	GTG	CAA	CTG	GTG	GAG	TCT	GGG	GGA	GGC	TTG	GTC	CAG	CCT	GGC	GGG	TCC	CTG	AGA	GTC	TCC
	63			72			81			90			99			108			117	
C	A	V	S	G	F	T	F	S	D	H	Y	M	Y	W	F	R	Q	A	P	G
TGT	GCA	GTC	TCT	GGA	TTC	ACC	TTC	AGT	GAC	CAC	TAC	ATG	TAT	TGG	TTC	CGC	CAG	GCT	CCA	GGG
	126			135			144			153			162			171			180	
K	G	P	E	W	V	G	F	I	R	N	K	P	N	G	G	T	T	E	Y	A
AAG	GGG	CCG	GAA	TGG	GTA	GGT	TTC	ATT	AGA	AAC	AAA	CCG	AAC	GGT	GGG	ACA	ACA	GAA	TAC	GCC
	189			198			207			216			225			234			243	
A	S	V	K	D	R	F	T	I	S	R	D	D	S	K	S	I	A	Y	L	Q
GCG	TCT	GTG	AAA	GAC	AGA	TTC	ACC	ATC	TCC	AGA	GAT	GAT	TCC	AAA	AGC	ATC	GCC	TAT	CTG	CAA
	252			261			270			279			288			297			306	
M	S	S	L	K	I	E	D	T	A	V	Y	Y	C	T	T	S	Y	I	S	H
ATG	AGC	AGC	CTG	AAA	ATC	GAG	GAC	ACG	GCC	GTC	TAT	TAC	TGT	ACT	ACA	TCC	TAC	ATT	TCA	CAT
	315			324			333			342			351			360			369	
C	R	G	G	V	C	Y	G	G	Y	F	E	F	W	G	Q	G	A	L	V	T
TGT	CGG	GGT	GGT	GTC	TGC	TAT	GGA	GGT	TAC	TTC	GAA	TTC	TGG	GGC	CAG	GGC	GCC	CTG	GTC	ACC
	378			387			396			405			414			423			432	
V	S	S	A	S	T	K	G	P	S	V	F	P	L	A	P	S	S	K	S	T
GTC	TCC	TCA	GCT	AGC	ACC	AAG	GGC	CCA	TCG	GTC	TTC	CCC	CTG	GCA	CCC	TCC	TCC	AAG	AGC	ACC
	441			450			459			468			477			486			495	
S	G	G	T	A	A	L	G	C	L	V	K	D	Y	F	P	E	P	V	T	V
TCT	GGG	GGC	ACA	GCG	GCC	CTG	GGC	TGC	CTG	GTC	AAG	GAC	TAC	TTC	CCC	GAA	CCG	GTG	ACG	GTG
	504			513			522			531			540			549			558	
S	W	N	S	G	A	L	T	S	G	V	H	T	F	P	A	V	L	Q	S	S
TCG	TGG	AAC	TCA	GGC	GCC	CTG	ACC	AGC	GGC	GTG	CAC	ACC	TTC	CCG	GCT	GTC	CTA	CAG	TCC	TCA
	567			576			585			594			603			612			621	
G	L	Y	S	L	S	S	V	V	T	V	P	S	S	S	L	G	T	Q	T	Y
GGA	CTC	TAC	TCC	CTC	AGC	AGC	GTG	GTG	ACC	GTG	CCC	TCC	AGC	AGC	TTG	GGC	ACC	CAG	ACC	TAC
	630			639			648			657			666			675			684	
I	C	N	V	N	H	K	P	S	N	T	K	V	D	K	K	A	E	P	K	S
ATC	TGC	AAC	GTG	AAT	CAC	AAG	CCC	AGC	AAC	ACC	AAG	GTG	GAC	AAG	AAA	GCA	GAG	CCC	AAA	TCT
	693			702			711			720			729			738			747	
C	D	K	T	H	T	C	P	P	C	P	A	P	E	L	L	G	G	P	S	V
TGT	GAC	AAA	ACT	CAC	ACA	TGC	CCA	CCG	TGC	CCA	GCA	CCT	GAA	CTC	CTG	GGG	GGA	CCG	TCA	GTC
	756			765			774			783			792			801			810	
F	L	F	P	P	K	P	K	D	T	L	M	I	S	R	T	P	E	V	T	C
TTC	CTC	TTC	CCC	CCA	AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC
	819			828			837			846			855			864			873	
V	V	V	D	V	S	H	E	D	P	E	V	K	F	N	W	Y	V	D	G	V
GTG	GTG	GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	GTC	AAG	TTC	AAC	TGG	TAC	GTG	GAC	GGC	GTG
	882			891			900			909			918			927			936	

FIGURE 9b (Continued)

E	V	H	N	A	K	T	K	P	R	E	E	Q	Y	N	S	T	Y	R	V	V
GAG	GTG	CAT	AAT	GCC	AAG	ACA	AAG	CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC
945				954			963			972			981			990			999	
S	V	L	T	V	L	H	Q	D	W	L	N	G	K	E	Y	K	C	K	V	S
AGC	GTC	CTC	ACC	GTC	CTG	CAC	CAG	GAC	TGG	CTG	AAT	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC
1008				1017			1026			1035			1044			1053			1062	
N	K	A	L	P	A	P	I	E	K	T	I	S	K	A	K	G	Q	P	R	E
AAC	AAA	GCC	CTC	CCA	GCC	CCC	ATC	GAG	AAA	ACC	ATC	TCC	AAA	GCC	AAA	GGG	CAG	CCC	CGA	GAA
1071				1080			1089			1098			1107			1116			1125	
P	Q	V	Y	T	L	P	P	S	R	D	E	L	T	K	N	Q	V	S	L	T
CCA	CAG	GTG	TAC	ACC	CTG	CCC	CCA	TCC	CGG	GAT	GAG	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC
1134				1143			1152			1161			1170			1179			1188	
C	L	V	K	G	F	Y	P	S	D	I	A	V	E	W	E	S	N	G	Q	P
TGC	CTG	GTC	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	AAT	GGG	CAG	CCG
1197				1206			1215			1224			1233			1242			1251	
E	N	N	Y	K	T	T	P	P	V	L	D	S	D	G	S	F	F	L	Y	S
GAG	AAC	AAC	TAC	AAG	ACC	ACG	CCT	CCC	GTG	CTG	GAC	TCC	GAC	GGC	TCC	TTC	TTC	CTC	TAC	AGC
1260				1269			1278			1287			1296			1305			1314	
K	L	T	V	D	K	S	R	W	Q	Q	G	N	V	F	S	C	S	V	M	H
AAG	CTC	ACC	GTG	GAC	AAG	AGC	AGG	TGG	CAG	CAG	GGG	AAC	GTC	TTC	TCA	TGC	TCC	GTG	ATG	CAT
1323				1332			1341			1350			1359			1368			1377	
E	A	L	H	N	H	Y	T	Q	K	S	L	S	L	S	P	G	K	.		
GAG	GCT	CTG	CAC	AAC	CAC	TAC	ACG	CAG	AAG	AGC	CTC	TCC	CTG	TCT	CCG	GGT	AAA	TGA		
1386				1395			1404			1413			1422			1431				



FIGURE 10b

Length of 16C10 heavy/primatized: 1431 bp;  
 Listed from: 1 to: 1431;  
 Translated from: 1 to: 1429 (Entire region);  
 Genetic Code used: Universal; Fri, May 26, 1995 11:08 AM

Frame 1	M	K	H	L	W	F	F	L	L	L	V	A	A	P	R	W	V	L	S	
	ATG	AAA	CAC	CTG	TGG	TTC	TTC	CTC	CTC	CTG	GTG	GCA	GCT	CCC	AGA	TGG	GTC	CTG	TCC	
			9			18			27			36			45			54		
Q	V	Q	L	Q	E	S	G	P	G	L	V	K	P	S	E	T	L	S	L	T
CAG	GTG	CAG	CTG	CAG	GAG	TCG	GGC	CCA	GGA	CTG	GTG	AAG	CCT	TCG	GAG	ACC	CTG	TCC	CTC	ACC
	63			72			81			90			99			108			117	
C	A	V	S	G	G	S	I	S	G	G	Y	G	W	G	W	I	R	Q	P	P
TGC	GCT	GTC	TCT	GGT	GGC	TCC	ATC	AGC	GGT	GGT	TAT	GGC	TGG	GGC	TGG	ATC	CGC	CAG	CCC	CCA
	126			135			144			153			162			171			180	
G	K	G	L	E	W	I	G	S	F	Y	S	S	S	G	N	T	Y	Y	N	P
GGG	AAG	GGG	CTG	GAG	TGG	ATT	GGG	AGT	TTC	TAT	AGT	AGT	AGT	GGG	AAC	ACC	TAC	TAC	AAC	CCC
	189			198			207			216			225			234			243	
S	L	K	S	Q	V	T	I	S	T	D	T	S	K	N	Q	F	S	L	K	L
TCC	CTC	AAG	AGT	CAA	GTC	ACC	ATT	TCA	ACA	GAC	ACG	TCC	AAG	AAC	CAG	TTC	TCC	CTG	AAG	CTG
	252			261			270			279			288			297			306	
N	S	M	T	A	A	D	T	A	V	Y	Y	C	V	R	D	R	L	F	S	V
AAC	TCT	ATG	ACC	GCC	GCG	GAC	ACG	GCC	GTG	TAT	TAC	TGT	GTG	AGA	GAT	CGT	CTT	TTT	TCA	GTT
	315			324			333			342			351			360			369	
V	G	M	V	Y	N	N	W	E	D	V	W	G	P	G	V	L	V	T	V	S
GTT	GGA	ATG	GTT	TAC	AAC	AAC	TGG	TTC	GAT	GTC	TGG	GGC	CCG	GGA	GTC	CTG	GTC	ACC	GTC	TCC
	378			387			396			405			414			423			432	
S	A	S	T	K	G	P	S	V	F	P	L	A	P	S	S	K	S	T	S	G
TCA	GCT	AGC	ACC	AAG	GGC	CCA	TCG	GTC	TTC	CCC	CTG	GCA	CCC	TCC	TCC	AAG	AGC	ACC	TCT	GGG
	441			450			459			468			477			486			495	
G	T	A	A	L	G	C	L	V	K	D	Y	F	P	E	P	V	T	V	S	W
GGC	ACA	GCG	GCC	CTG	GGC	TGC	CTG	GTC	AAG	GAC	TAC	TTC	CCC	GAA	CCG	GTG	ACG	GTG	TCG	TGG
	504			513			522			531			540			549			558	
N	S	G	A	L	T	S	G	V	H	T	F	P	A	V	L	Q	S	S	G	L
AAC	TCA	GGC	GCC	CTG	ACC	AGC	GGC	GTG	CAC	ACC	TTC	CCG	GCT	GTC	CTA	CAG	TCC	TCA	GGA	CTC
	567			576			585			594			603			612			621	
Y	S	L	S	S	V	V	T	V	P	S	S	S	L	G	T	Q	T	Y	I	C
TAC	TCC	CTC	AGC	AGC	GTG	GTG	ACC	GTG	CCC	TCC	AGC	AGC	TTG	GGC	ACC	CAG	ACC	TAC	ATC	TGC
	630			639			648			657			666			675			684	
N	V	N	H	K	P	S	N	T	K	V	D	K	K	A	E	P	K	S	C	D
AAC	GTG	AAT	CAC	AAG	CCC	AGC	AAC	ACC	AAG	GTG	GAC	AAG	AAA	GCA	GAG	CCC	AAA	TCT	TGT	GAC
	693			702			711			720			729			738			747	
K	T	H	T	C	P	P	C	P	A	P	E	L	L	G	G	P	S	V	F	L
AAA	ACT	CAC	ACA	TGC	CCA	CCG	TGC	CCA	GCA	CCT	GAA	CTC	CTG	GGG	GGA	CCG	TCA	GTC	TTC	CTC
	756			765			774			783			792			801			810	
F	P	P	K	P	K	D	T	L	M	I	S	R	T	P	E	V	T	C	V	V
TTC	CCC	CCA	AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC	GTG	GTG
	819			828			837			846			855			864			873	
V	D	V	S	H	E	D	P	E	V	K	F	N	W	Y	V	D	G	V	E	V
GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	GTC	AAG	TTC	AAC	TGG	TAC	GTG	GAC	GGC	GTG	GAG	GTG

FIGURE 10b (Continued)

882	891	900	909	918	927	936
H N A K T K P R E E Q Y N S T Y R V V S V						
CAT AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTG AGC GTC						
945	954	963	972	981	990	999
L T V L H Q D W L N G K E Y K C K V S N K						
CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTG TCC AAC AAA						
1008	1017	1026	1035	1044	1053	1062
A L P A P I E K T I S K A K G Q P R E P Q						
GCC CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA CCA CAG						
1071	1080	1089	1098	1107	1116	1125
V Y T L P P S R D E L T K N Q V S L T C L						
GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG ACC TGC CTG						
1134	1143	1152	1161	1170	1179	1188
V K G F Y P S D I A V E W E S N G Q P E N						
GTG AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG CAG CCG GAG AAC						
1197	1206	1215	1224	1233	1242	1251
N Y K T T P P V L D S D G S F F L Y S K L						
AAC TAC AAG ACC ACG CCT CCC GTG CTG GAC TCC GAC GGC TCC TTC TTC CTC TAC AGC AAG CTC						
1260	1269	1278	1287	1296	1305	1314
T V D K S R W Q Q G N V F S C S V M H E A						
ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT						
1323	1332	1341	1350	1359	1368	1377
L H N H Y T Q K S L S L S P G K						
CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA						
1386	1395	1404	1413	1422	1431	